AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior versions

of claims in the application:

Claim 1 (canceled)

Claim 2 (currently amended): The method of claim 3 [[1]], wherein each said floorboard-

location three-layer material system effects at least one dissipative mechanism in response to an

impacting event, said at least one dissipative mechanism including constrained layer damping.

Claim 3 (currently amended): A [[The]] method for augmenting a wheeled vehicle in order to

enhance its occupant protection capability, said vehicle including a cabin and an undercarriage,

said undercarriage including an undercarriage portion situated beneath said cabin, said

undercarriage portion including a pair of floorboard portions and a central portion intermediate

said floorboard portions, each said floorboard portion being at least substantially characterized

by structural continuity of claim 1, said central portion being at least substantially characterized

by structural discontinuity, said method further comprising:

covering each said floorboard portion with a floorboard-location elastomeric layer and a

floorboard-location non-elastomeric layer so that said floorboard-location elastomeric layer is

interposed between said floorboard portion and said floorboard-location non-elastomeric layer,

wherein with respect to each said floorboard portion the combination including said floorboard

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portion and its associated said floorboard-location elastomeric layer and its associated said

floorboard-location non-elastomeric layer essentially represents a floorboard-location three-layer

material system, said floorboard portion and said floorboard-location non-elastomeric layer each

being more rigid than said floorboard-location elastomeric layer; and

covering said central portion with [[an]] a central-location elastomeric layer and a

central-location non-elastomeric layer so that said central-location non-elastomeric layer is

interposed between said central portion and said central-location elastomeric layer, wherein with

respect to said central portion the combination including its associated said central-location

elastomeric layer and its associated said central-location non-elastomeric layer essentially

represents a central-location two-layer material system, said central-location non-elastomeric

layer being more rigid than said <u>central-location</u> elastomeric layer.

Claim 4 (currently amended): The method of claim 3, wherein said <u>central-location</u> elastomeric

layer faces downward, and wherein said central-location two-layer material system effects

deflection in response to an impacting event.

Claim 5 (currently amended): The method of claim 3, said vehicle further including two pairs

of axial wheels and two pairs of non-horizontal wheel wells, each said wheel well being

associated with a said wheel, each said wheel well being at least substantially characterized by

structural continuity, said method further comprising covering each said wheel well with [[an]] a

well-location elastomeric layer and a well-location non-elastomeric layer so that said well-

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location elastomeric layer is interposed between said wheel well and said well-location non-

elastomeric layer, wherein with respect to each said wheel well the combination of said wheel

well and its associated said well-location elastomeric layer and its associated said well-location

non-elastomeric layer represents a well-location three-layer material system, said wheel well and

said well-location non-elastomeric layer each being more rigid than said well-location

elastomeric layer.

Claim 6 (currently amended): The method of claim 5, wherein:

each said <u>floorboard-location</u> three-layer <u>material</u> system <u>and each said well-location</u>

three-layer material system effects at least one dissipative mechanism in response to an

impacting event, said at least one dissipative mechanism including constrained layer damping;

and

said central-location two-layer material system effects deflection in response to an

impacting event.

Claim 7 (currently amended): The method of claim 5, wherein each said <u>floorboard-location</u>

non-elastomeric layer, each said well-location non-elastomeric layer, and each said central-

location non-elastomeric layer is at least substantially composed of a material selected from the

group consisting of metal and composite.

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Claim 8 (currently amended): The method of claim 5, wherein a generally integral protective shield is described by the combination including:

both of said <u>floorboard-location</u> three-layer material systems that are provided each with respect to a said floorboard portion;

said <u>central-location</u> two-layer material system-that is provided respect to said central portion; and

all four of said <u>well-location</u> three-layer material systems—that are provided each with respect to said wheel wells.

Claim 9 (currently amended): The method of claim 8, wherein:

each said <u>floorboard-location</u> three-layer <u>material</u> system <u>and each said well-location</u> three-layer <u>material system</u> effects at least one dissipative mechanism in response to an impacting event, said at least one dissipative mechanism including constrained layer damping; and

said <u>central-location</u> two-layer material system effects deflection in response to an impacting event.

Claim 10 (currently amended): The method of claim 8, wherein each said <u>floorboard-location</u> non-elastomeric layer, each said well-location non-elastomeric layer, and each said central-location non-elastomeric layer is at least substantially composed of a material selected from the

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group consisting of metal and composite.

Claim 11 (currently amended): The method of claim 10, wherein:

each said <u>floorboard-location</u> three-layer <u>material</u> system <u>and each said well-location</u> three-layer <u>material</u> system effects at least one dissipative mechanism in response to an impacting event, said at least one dissipative mechanism including constrained layer damping; and

said <u>central-location</u> two-layer material system effects deflection in response to an impacting event.

Claim 12 (canceled)

Claim 13 (currently amended): The method of claim 5 [[12]], wherein each said floorboard-location three-layer material system and each said well-location three-layer material system effects at least one dissipative mechanism in response to an impacting event, said at least one dissipative mechanism including constrained layer damping.

Claim 14 (currently amended): A method for rendering a vehicular cabin assembly more occupant-protective, said cabin assembly including a cabin body, four wheel-facing bulkheads and two floorboards separated by a space therebetween, each said bulkhead adjoining a said

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floorboard, said method comprising providing shielding means for said cabin body, said

providing shielding means including:

at each said bulkhead, establishing a first sandwich construction that includes said

bulkhead, first elastomeric material, and first non-elastomeric material, wherein said first

elastomeric material is sandwiched between said bulkhead and said first non-elastomeric

material;

at each said floorboard, establishing a second sandwich construction that includes said

floorboard, second elastomeric material, and second non-elastomeric material, wherein said

second elastomeric material is sandwiched between said floorboard and said second non-

elastomeric material; and

at least substantially covering said space between said floorboards, said at least

substantially covering including attaching to said cabin assembly a double-layer construction

that includes third elastomeric material and third non-elastomeric material, wherein said third

elastomeric material is underneath said third non-elastomeric material.

Claim 15 (currently amended): The method of claim 14, wherein said shielding means includes

the integration of:

said first sandwich constructions at said bulkheads;

said second sandwich constructions at said floorboards; and

said double-layer construction attached to said cabin assembly.

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Claim 16 (original): The method of claim 15, wherein said shielding means is both dissipative

and deflective with respect to forceful influence exerted upon said cabin assembly.

Claim 17 (canceled)

Claim 18 (currently amended): An occupant-protective understructure suitable for incorporation

as part of a wheeled vehicle, said wheeled vehicle having a front vehicle end, a rear vehicle end,

a left vehicle side, and a right vehicle side, said [[The]] understructure of claim 17 further

comprising:

two separated, at least approximately coplanar floor components, said two floor

components being a left floor component and a right floor component, said left floor component

having a left floor component front end and a left floor component rear end, said right floor

component having a right floor component front end and a right floor component rear end, each

said floor component including two rigid layers and an elastomeric layer sandwiched

therebetween;

four wheel bulkhead components each for placement proximate a wheel of said vehicle,

said four wheel bulkhead components being a left front wheel bulkhead component, a right front

wheel bulkhead component, a left rear wheel bulkhead component, and a right rear wheel

bulkhead component, each said wheel bulkhead component including two rigid layers and an

elastomeric layer sandwiched therebetween, said left front wheel bulkhead component adjoining

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said left floor component at said left floor component front end, said right front wheel bulkhead

component adjoining said right floor component at said right floor component front end, said left

rear wheel bulkhead component adjoining said left floor component at said left floor component

rear end, said right rear wheel bulkhead component adjoining said right floor component at said

right floor component rear end, each said wheel bulkhead component being disposed at an angle

with respect to the adjoining said floor component; and

a middle component including a rigid layer and an elastomeric layer on the underside of

said rigid layer, said middle component being interposed between said two floor components so

as to be at least nearly coplanar with said two floor components.

Claim 19 (original): The understructure of claim 18, said vehicle being adaptable to carrying

at least one occupant, wherein in response to forceful influence exerted upon said vehicle, said

four wheel bulkhead components, said two floor components and said middle component

aggregately shield said at least one occupant.

Claim 20 (original): The method of claim 19, wherein said aggregate shielding includes both

dissipation and deflection with respect to said forceful influence.

Claim 21 (original): A wheeled vehicle attributed with occupant protectiveness against

injurious force encountered by said vehicle, said vehicle comprising a cabin body, a cabin

underside, two pairs of axial wheels, and two pairs of wheel well areas, said cabin underside

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including two side floorboard areas and a non-floorboard area intermediate said floorboard

areas, each said wheel well area being associated with a said wheel, said floorboard areas and

said wheel well areas each being characterized by a laminar configuration including two rigid

layers and an elastomeric layer therebetween, said non-floorboard area being characterized by a

laminar configuration including a rigid layer and an elastomeric layer in which said elastomeric

layer faces downward.

Claim 22 (original): The vehicle of claim 21 wherein said floorboard areas, said non-

floorboard area and said wheel well areas collectively form a buffer for said cabin, said buffer

generally describing a dish shape.

Claim 23 (original): The vehicle of claim 22, said vehicle having a front end and a rear end,

wherein each said floorboard area adjoins a front said wheel well area and a rear said wheel well

area so as to generally describe a bracket shape, and wherein said non-floorboard area adjoins

said floorboard areas so as to generally describe a planar shape.

Claim 24 (original): The vehicle of claim 23 wherein, in response to injurious force

encountered by said vehicle, said buffer acts to deflect the impact and to dissipate the energy that

are associated with said injurious force.

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Claim 25 (original): The vehicle of claim 24 wherein each said rigid layer at least

substantially consists of a material selected from the group consisting of metal and composite.

Claim 26 (original): The vehicle of claim 22 wherein, in response to injurious force

encountered by said vehicle, said buffer acts to deflect the impact and to dissipate the energy that

are associated with said injurious force.

Claim 27 (original): The vehicle of claim 22 wherein each said rigid layer at least

substantially consists of a material selected from the group consisting of metal and composite.

Claim 28 (original): The vehicle of claim 27 wherein, in response to injurious force

encountered by said vehicle, said buffer acts to deflect the impact and to dissipate the energy that

are associated with said injurious force.